Jonathan Coignard

Computer sciences &
Electrical engineering

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Education

2010 – 2015 **Engineering degree - Master equivalent**, *Compiègne University of Technology*, France.
Urban systems engineering, specializing in electric power system - Research minor

Spring 2012 **Semester of studies abroad**, *Riga Technical University*, Latvia.
Electrical engineering

Relevant Experience

February 2015 to April 2019 **Scientific Engineering Associate**, *Lawrence Berkeley National Laboratory*.
Simulation tools for vehicle to grid interactions and grid reliability assessment.
Selected publications:

→ Will Electric Vehicles Drive Distribution Grid Upgrades? The Case of California, Jonathan Coignard, Pamela MacDougall, Franz Stadtmueller, and Evangelos Vrettos, IEEE Electrification magazine June 2019.

→ CyDER – an FMI-based co-simulation platform for distributed energy resources, Thierry S. Nouidui, Jonathan Coignard, et al., Journal of Building Performance Simulation, 2018.

→ Co-simulation Framework for Blockchain Based Market Designs and Grid Simulations, Jonathan Coignard, Eric Munsing, Jason MacDonald, Jonathan Mather, PES GM 2018.

→ Clean Vehicles as an Enabler for a Clean Electricity Grid, Jonathan Coignard, Samveg Saxena, Jeffery Greenblatt, Dai Wang, Environmental Research Letters, 2017

September 2013 to march 2014 **Research engineer (internship)**, *CEREMA*, Brest.
Near shore quantification of incident wave energy and economical study of the *kWh* price for wave energy systems. Publications:

→ EMACOP project: Digital modeling of the waves toward Esquibien's dam using SWASH, Jonathan Coignard, Bertrand Michard, Jean-François Filipot, Philippe Sergent, in the online journal *Paralia*, 2014.

→ EMACOP project: characterizing the wave energy resources of hot spots in Brittany for on-shore WEC, Bertrand Michard et al, EWTEC, 2015.

2012 to 2015 **Master student**, *Compiegne University of Technology*.

→ Thesis project: optimization of the power supplied by a small scale wind-turbine using current and voltage measurements. Numerical modeling of a wind-turbine using SIMULINK/MATLAB, and practical implementation on a test bench.

→ President of the digital and paper drawing association *"DaDa"*.

Summers of 2011 to 2014 **Volunteering**, *Archelon, The Sea Turtle Protection Society Of Greece*.
Conservation of the endangered species *Caretta caretta* (loggerhead sea turtle) at influential nesting beaches in the Mediterranean.

Skills

Programming Python, Django, Docker, Git, D3.js, PowerFactory, CymDIST, FMI standard, SQL, PostgreSQL, Redis, MATLAB and Simulink, OPAL-RT, Ethereum, Latex

Languages French: mother tongue - English: fluent - Spanish: intermediary

For more information, `http://jonathancoignard.com`